10288500 WALKER LAKE NEAR HAWTHORNE, NV

WALKER RIVER BASIN, WALKER LAKE

LOCATION.--Lat 38°40′36″, long 118°46′16″ referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.27, T.10 N., R.29 E., Mineral County, Hydrologic Unit 16050304, 14.5 mi northwest of Hawthorne.

DRAINAGE AREA.--4,050 mi², approximately.

WATER-STAGE RECORDS

PERIOD OF RECORD.--Prior to Oct 2004 monthend elevations. Aug 1928 to current year. Occasional readings prior to Aug 1928.

GAGE.--Water-stage recorder. Datum of gage is 4,099.72 ft above National Geodetic Vertical Datum of 1929 (Nevada Highway Dept bench mark). Prior to Dec 6, 1978, at site 5.5 mi northwest of Hawthorne, at same datum, but based on bench mark on Hawthorne Ammunition Depot.

REMARKS.--Continuous record readings are averaged over 15 minute period, but can be affected by wind and from seiche movements of the lake surface.

EXTREMES OUTSIDE PERIOD OF RECORD.--An elevation of 4,078.0 ft, adjustment of 1912, was observed Sep 27, 1908, by U.S. Geological Survey (contents 8,622,000 acre-ft, table now in use). An elevation of about 4,083 ft for 1882 is estimated by Rush (U.S. Geological Survey Hydrologic Investigations Atlas HA-415, 1970), on the basis of bathymetric data.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 1,810,000 acre-ft, Jul 21, elevation, 3,936.0 ft; minimum contents observed, 1,738,000 acre-ft, May 18, 20, elevation 3933.9 ft.

10288500 WALKER LAKE NEAR HAWTHORNE, NV—Continued

ELEVATION OF RESERVOIR WATER SURFACE ABOVE DATUM, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY OBSERVATION AT 2400 HOURS

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3,935.21	3,934.69	3,934.47	3,934.28	3,934.23	3,934.30	3,934.21	3,934.01	3,934.27	3,935.55	3,935.82	3,935.15
2	3,935.20	3,934.70	3,934.45	3,934.30	3,934.24	3,934.31	3,934.20	3,933.99	3,934.30	3,935.57	3,935.80	3,935.13
3	3,935.18	3,934.66	3,934.43	3,934.28	3,934.23	3,934.30	3,934.19	3,933.99	3,934.37	3,935.57	3,935.79	3,935.11
4	3,935.17	3,934.63	3,934.43	3,934.30	3,934.22	3,934.30	3,934.18	3,933.99	3,934.46	3,935.58	3,935.77	3,935.10
5	3,935.15	3,934.65	3,934.44	3,934.28	3,934.21	3,934.31	3,934.18	3,934.00	3,934.50	3,935.60	3,935.74	3,935.08
6	3,935.15	3,934.64	3,934.35	3,934.24	3,934.22	3,934.31	3,934.16	3,934.02	3,934.56	3,935.64	3,935.73	3,935.05
7	3,935.14	3,934.62	3,934.35	e3,934.24	3,934.23	3,934.32	3,934.18	3,934.01	3,934.63	3,935.67	3,935.69	3,935.03
8	3,935.12	3,934.64	3,934.34	e3,934.24	3,934.21	3,934.34	3,934.11	3,934.00	3,934.70	3,935.67	3,935.69	3,935.02
9	3,935.08	3,934.67	3,934.37	3,934.26	3,934.20	3,934.34	3,934.12	3,933.97	3,934.75	3,935.71	3,935.67	3,934.97
10	3,935.06	3,934.67	3,934.36	3,934.25	3,934.21	3,934.33	3,934.12	3,933.99	3,934.86	3,935.74	3,935.66	3,934.92
11	3,935.02	e3,934.65	3,934.33	3,934.29	3,934.20	3,934.31	3,934.08	3,933.97	3,934.94	3,935.76	3,935.63	3,934.90
12	3,935.01	3,934.65	3,934.32	3,934.27	3,934.20	3,934.33	3,934.07	3,933.97	3,935.01	3,935.79	3,935.62	3,934.87
13	3,935.00	3,934.67	3,934.33	3,934.26	3,934.22	3,934.31	3,934.06	3,933.95	3,935.06	3,935.81	3,935.58	3,934.86
14	3,934.99	3,934.64	3,934.36	3,934.25	3,934.23	3,934.30	3,934.04	3,933.96	3,935.06	3,935.86	3,935.55	3,934.84
15	3,934.99	3,934.62	3,934.34	3,934.26	3,934.22	e3,934.30	3,934.05	3,933.98	3,935.09	3,935.87	3,935.51	3,934.81
16	3,934.98	3,934.65	3,934.32	3,934.24	3,934.25	3,934.29	3,934.04	3,933.94	3,935.09	3,935.90	3,935.49	3,934.79
17	3,934.95	3,934.63	3,934.33	3,934.27	3,934.25	3,934.29	3,934.03	3,933.95	3,935.12	3,935.92	3,935.46	3,934.78
18	3,934.91	3,934.62	3,934.32	3,934.29	3,934.22	3,934.30	3,934.02	3,933.87	3,935.16	3,935.92	3,935.45	3,934.74
19	3,934.89	3,934.61	3,934.30	3,934.28	3,934.27	3,934.26	3,934.00	3,933.93	3,935.17	3,935.93	3,935.44	3,934.73
20	3,934.86	3,934.56	3,934.32	3,934.28	e3,934.27	3,934.28	3,934.00	3,933.87	3,935.22	3,935.91	3,935.41	3,934.70
21	3,934.83	3,934.52	3,934.31	3,934.27	e3,934.27	3,934.25	3,933.99	3,933.89	3,935.28	3,935.95	3,935.39	3,934.69
22	3,934.83	3,934.53	3,934.30	3,934.27	3,934.32	3,934.28	3,933.93	3,933.88	3,935.31	3,935.93	3,935.38	3,934.68
23	3,934.80	3,934.52	3,934.31	3,934.27	3,934.30	3,934.30	3,933.97	3,933.90	3,935.41	3,935.93	3,935.36	3,934.67
24	3,934.80	3,934.51	3,934.28	3,934.28	3,934.31	3,934.28	3,933.95	3,933.96	3,935.47	3,935.91	3,935.34	3,934.62
25	3,934.79	3,934.50	3,934.26	3,934.25	3,934.30	3,934.28	3,933.96	3,934.01	3,935.48	3,935.91	3,935.33	3,934.60
26	3,934.78	3,934.53	3,934.25	3,934.27	3,934.30	3,934.27	3,933.97	3,934.03	3,935.53	3,935.88	3,935.31	3,934.54
27	3,934.76	3,934.50	e3,934.25	3,934.26	e3,934.30	3,934.21	3,934.01	3,934.09	3,935.55	3,935.87	3,935.30	3,934.56
28	3,934.75	3,934.52	3,934.23	3,934.30	3,934.30	3,934.24	3,933.98	3,934.09	3,935.57	3,935.87	3,935.27	3,934.54
29	3,934.75	3,934.50	e3,934.23	3,934.26	---	3,934.25	3,933.98	3,934.12	3,935.56	3,935.88	3,935.25	3,934.55
30	3,934.73	3,934.48	3,934.26	3,934.25	---	3,934.24	3,933.98	3,934.17	3,935.56	3,935.86	3,935.20	3,934.54
31	3,934.73	---	3,934.26	3,934.26	---	3,934.21	---	3,934.20	---	3,935.84	3,935.17	---
Max	3,935.21	3,934.70	3,934.47	3,934.30	3,934.32	3,934.34	3,934.21	3,934.20	3,935.57	3,935.95	3,935.82	3,935.15
Min	3,934.73	3,934.48	3,934.23	3,934.24	3,934.20	3,934.21	3,933.93	3,933.87	3,934.27	3,935.55	3,935.17	3,934.54
Elevation, in feet above NGVD 1929, at end of month.												
	1,767,000	1,759,000	1,752,000	1,752,000	1,754,000	1,751,000	1,743,000	1,750,000	1,794,000	1,803,000	1,781,000	1,761,000
Change in contents, in acre-feet.												
	-15,000	-8,000	-7,000	0	+2,000	-3,000	-8,000	+7,000	+44,000	+9,000	-22,000	-20,000

	Calendar Year 2004	Water Year 2005
Max	3,938.0	3,936.0
Min	3,934.2	3,933.9
Change in contents, in acre-feet.	-120,000	-21,000

10288500 WALKER LAKE NEAR HAWTHORNE, NV—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Oct 2004 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Oct 2004 to current year. Not published but in files of U.S. Geological Survey.
WATER TEMPERATURE: Oct 2004 to current year. Not published but in files of U.S. Geological Survey.

INSTRUMENTATION.--Water temperature monitor Oct 2004 to current year, four times per hour.

REMARKS.--Instantaneous specific-conductance and water-temperature measurements during a site visit can be slightly outside the range of values recorded during the same day by the water-quality monitor. This presumably is due to fluctuations in conductance and temperature during the interval between periodic monitor recordings. Records represent water temperature at probe within 0.5°C.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Sample type	Residue on evap. at 180degC wat flt mg/L (70300)
Feb			
10...	1155	Environmental	15,400
24...	0925	Environmental	15,700
Apr			
26...	1130	Environmental	15,700
May			
26...	1145	Environmental	15,900
Jun			
10...	1315	Environmental	15,500
Aug			
17...	1315	Environmental	15,100